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(54) Title: CHIMERIC PROTEIN

(57) Abstract: A chimeric protein is disclosed for promoting repair and regeneration of neurons damaged by disease or physical injury wherein the chimeric protein is a combination of a first polypeptide possessing matrix modification activity and a second polypeptide possessing regenerating activity for neural cells.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26214

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12P 21/06; C12N 9/00, 9/24, 9/26, 9/50; C07K 1/00; C07H 21/04

US CL : 435/4, 6, 69.1, 183, 200, 201, 219; 530/350; 536/23.2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/4, 6, 69.1, 183, 200, 201, 219; 530/350; 536/23.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MOON L D.F. et al. Regeneration of CNS axons back to their target following treatment with of adult rat brain chondroitinase ABC. Nat. Neurosci., May 2001, Vol. 4, No. 5, pages 465-466.	1-24
Y	YICK LW et al. Chondroitinase ABC promotes axonal regeneration of Clarke's neurons after spinal cord injury, Neuroreport, 7 April 2000, Vol. 11, No. 5, pages 1063-1067.	1-24
Y	YANG EV et al. Expression of Mmp-9 and related matrix metalloproteinase genes during axolotl limb regeneration, Dev. Dyn., 1999, Vol. 216, pages 2-9.	1-24
Y	YANG EV et al. Developmental regulation of a matrix metalloproteinase during regeneration of axolotl appendages, Dev. Biol., 1994, Vol. 166, pages 696-703.	1-24
Y	TONA et al. Effect of hyaluronidase on brain extracellular matrix in vivo and optic nerve regeneration., J. Neurosci. Res., October 1993, Vol. 36, pages 191-199.	1-24
Y	CHEN YS et al. Peripheral nerve regeneration using silicone rubber chambers filled with collagen, laminin and fibronectin. Biomaterials, 2000, Vol. 21, pages 1541-1547.	1-24
Y	MATSUMOTO K et al. Peripheral nerve regeneration across an 80-mm gap bridged by polyglycolic acid (PGA)-collagen tube filled with laminin-coated collagen fibers: a histological and electrophysiological evaluation of regenerated nerves. Brain Res., June 2000, Vol. 868, pages 315-328.	1-24

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	STERNE GD et al. Neurotrophin-3 delivered locally via fibronectin mats enhances peripheral nerve regeneration, July 1997, Vol. 9, No. 7, pages 1388-1396.	1-24
X	WO 95/13091 A1 (INTERNATIONAL TECHNOLOGY MANAGEMENT ASSOCIATES, LTD.) 18 May 1995 (18.05.1995), see entire document.	1-24
Y	TRIGG DJ et al. Peripheral nerve regeneration: comparison of laminin and acidic fibroblast growth factor, Am. J. Otolaryngol., January-February 1998, Vol. 19, No. 1, pages 29-32.	1-24
Y	IWAI Y et al. Axon patterning requires DN-cadherin, a novel neuronal adhesion receptor in the Drosophila embryonic CNS, Neuron, July 1997, Vol. 19, pages 77-89.	1-24

Continuation of B. FIELDS SEARCHED Item 3:

File BIOSIS, CAPLUS, EMBASE, MEDLINE, SCISEARCH, USPTO WEST, BIOTECHNO, BIOTECHABS, CANCERLIT, GENBANK.